

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer-readable storage device comprising instructions for causing a processor to ~~display a graphical user interface (GUI), the GUI comprising:~~

receive a request to visualize a grid network, the grid network comprising grid managers running on a plurality of computers functioning as grid nodes; and

generate, in response to the request, a display comprising:

a graph with edges and vertices, the vertices representing the grid nodes in ~~[[a]] the grid network, each of the grid nodes comprising a grid manager;~~

wherein each of the edges includes ~~represents an a directional~~ representation of a hierarchical association between two of the grid managers.

2. (Previously Presented) The computer-readable storage device of claim 1 in which the association is peer-to-peer.

3. (Canceled)

4. (Currently Amended) A computer-readable storage device comprising instructions for causing a processor to perform a method, the method comprising:

displaying a first graphical user interface (GUI), the first GUI comprising:

a graph with vectors and nodes for visualizing a computer grid, the nodes representing computers running grid managers and the vectors representing relations between pairs of grid managers, each pair comprising a superior grid manager and an inferior grid manager,

for each node, an expandable structure showing computer grid applications running on a computer represented by the node,

receiving, with an event handler, a request identifying one of the nodes in the first GUI to view management services running on each of the computers; and

displaying a second GUI in response to the request, the second GUI illustrating the grid manager generating a display showing the management services running on the identified node and an inferior grid manager on a node other than the identified node each of the computers.

5. (Currently Amended) A method comprising:

receiving a request to visualize a grid network with a first node representing a first grid manager from a set of linked nodes, the linked nodes representing computers running grid managers and vectors representing relations between pairs of grid managers;

displaying the first node representing the first grid manager;

sending a first query to the first grid manager requesting a first list of grid managers having an inferior relation to the first node;

receiving a first response from the first grid manager to the first query;

displaying nodes corresponding to the grid managers in the first list and drawing vectors directed from the first grid manager to the grid managers in the first list of grid managers;

sending a second query to the first grid manager requesting a second list of grid managers having a superior relation to the first grid manager;

receiving a second response from the first grid manager to the second query;

and

displaying nodes corresponding to the grid managers in the second list and drawing vectors directed from the grid managers in the second list to the first grid manager.

6. (Original) The method of claim 5 further comprising:

sending a third query to each of the grid managers in the first list of grid managers requesting a third list of grid managers having an inferior relation to each grid manager in the first list of grid managers;

displaying nodes representing grid managers in the third list of grid managers and drawing vectors from the grid managers in the second list of grid managers to grid managers in the third list of grid managers.

7. (Original) The method of claim 6 further comprising:  
recursively repeating the steps of sending and displaying for each of the grid managers in the third list.
8. (Previously Presented) The method of claim 5 further comprising:  
sending a query to the first grid manager, the query requesting a list of services and applications managed by the first grid manager; and  
displaying an expandable structure, the display showing the list of services and applications managed by the first grid manager.
9. (Previously Presented) The computer-readable storage device according to claim 1, wherein the vertices display a network address for the corresponding grid node.
10. (Previously Presented) The computer-readable storage device according to claim 1, wherein the vertices display applications currently running on the corresponding grid node.
11. (Previously Presented) The computer-readable storage device according to claim 1, further comprising instructions for causing the processor to generate, in response to user input identifying one of the grid nodes, a display of a grid manager running on the identified grid node.

12. (Previously Presented) The computer-readable storage device according to claim 1, further comprising instructions for causing the processor to generate, in response to user input identifying one of the grid nodes, a display of applications running on the identified grid node.

13. (Previously Presented) The computer-readable storage device according to claim 1, further comprising instructions for causing the processor to generate, in response to user input identifying one of the grid nodes, a display representing a relationship between a grid manager running on the identified grid node and a grid manager running on another one of the grid nodes.